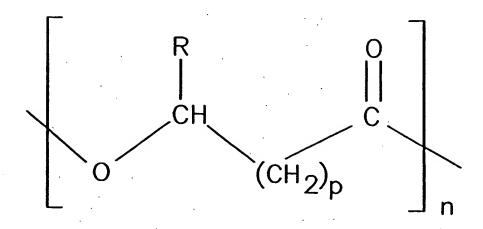
Sheet 1 of 17

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If 
$$p=1$$
:

$$PHA _{SCL} \begin{cases} R = -CH_3 & \Longrightarrow P(3HB) \\ R = -CH_2CH_3 & \Longrightarrow P(3HV) \end{cases}$$

PHA MCL 
$$\begin{cases} R = -(CH_2)_2 CH_3 \Longrightarrow P(3HH) \\ R = -(CH_2)_4 CH_3 \Longrightarrow P(3HO) \end{cases}$$

FIG. 1

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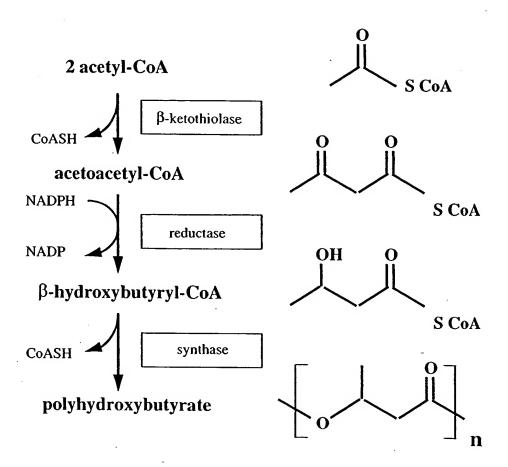


FIG. 2

Serial No.: Unassigned Express Mail No.: EL 88 3 US

Filed: Herewith

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Sheet 3 of 17

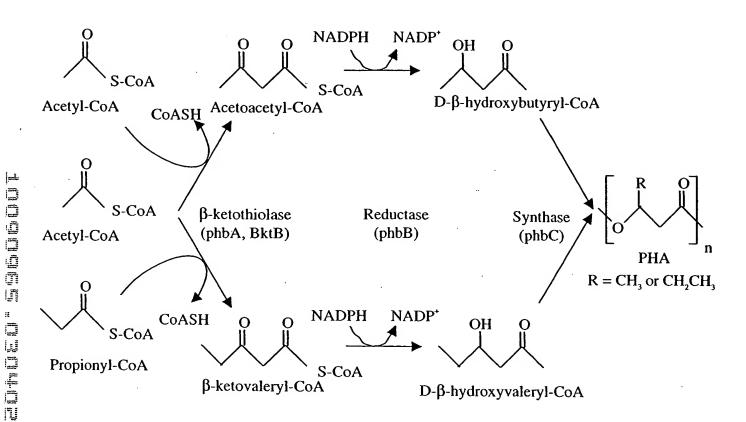


FIG. 3

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Title: PRODUCTION OF POLYHYDROXYALKANOATES
Applicant(s): SRIENC et al.
Serial No.: Unassigned
Express Mail No.: EL 8
723 US
Filed: Herewith

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Docket: 110.014

Sheet 5 of 17

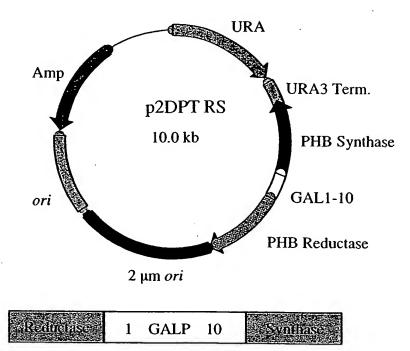


FIG. 5



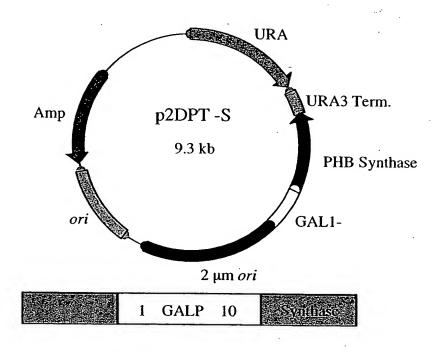


FIG. 6

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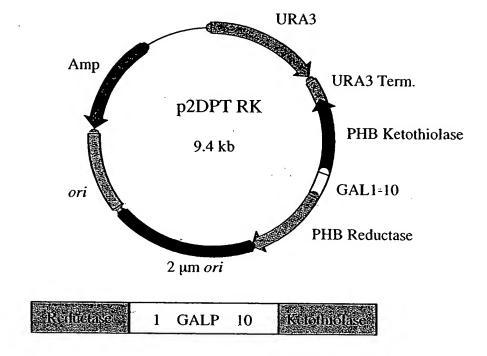


FIG. 7

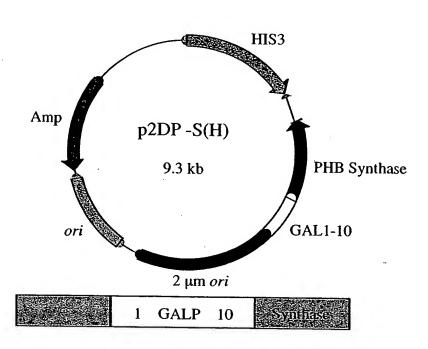


FIG. 8

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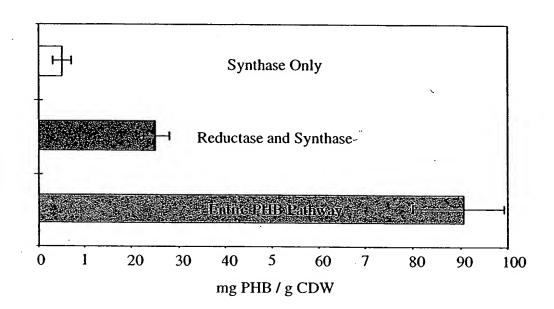


FIG. 9

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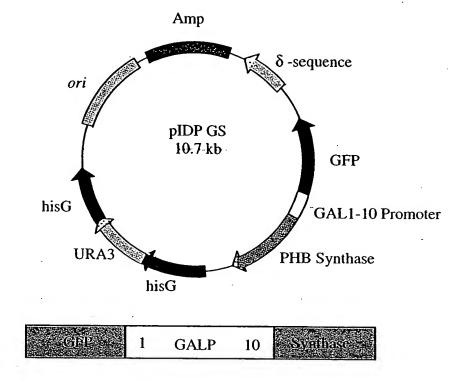


FIG. 10

Title: PRODUCTION OF POLYHYDROXYALKANOATES
Applicant(s): SRIENC et al.
Serial No.: Unassigned
Express Mail No.: ELL
3723 US
Filed: Herewith

Docket: 110.01

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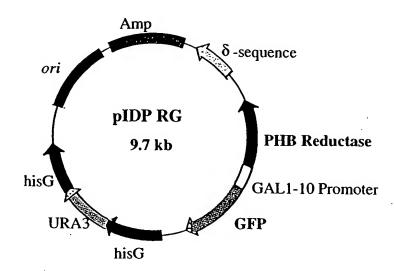


FIG. 11

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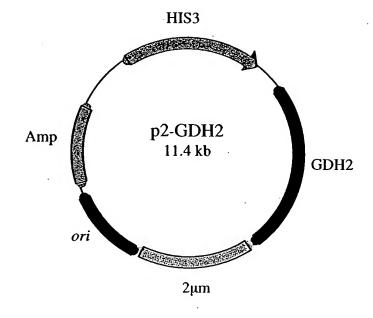


FIG. 12

Serial No.: Unassigned Express Mail No.: EL 8

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(a) mg PHB/g CDW

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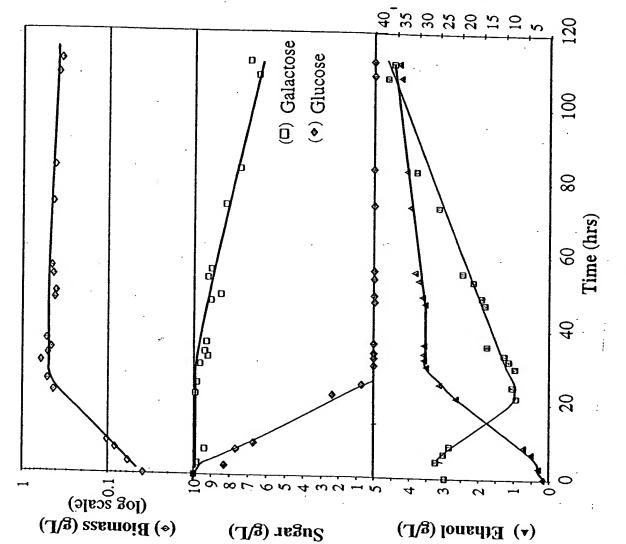
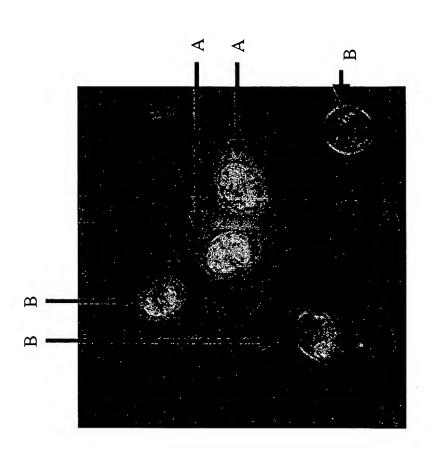


FIG. 13

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## Anaerobic PHB Production in E. coli: Volumetric PHB Content and Cell Dry Weight vs. Time

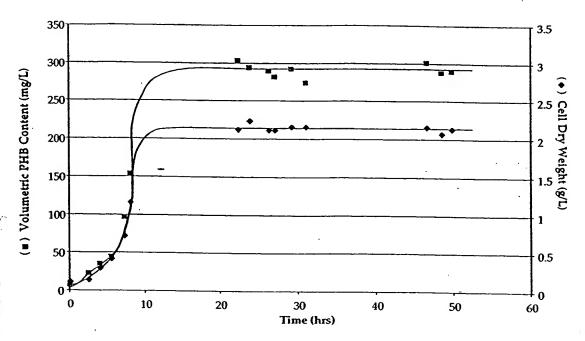


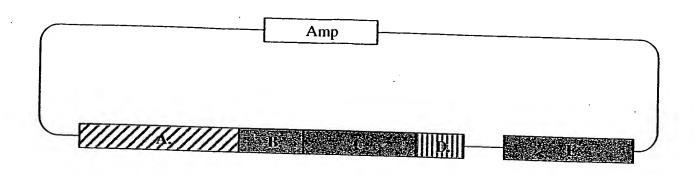
FIG. 15

TOPOPOS PROFILE

Title: PRODUCTION OF POLYHYDROXYALKANOATES
Applicant(s): SRIENC et al.
Serial No.: Unassigned Filed: Herewith
Express Mail No.: EL 8 23 US

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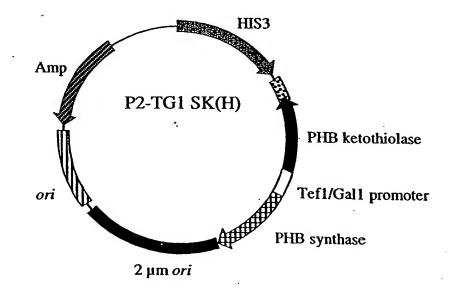


Plasmid Name:	A. Origin of Replication	B. Promoter	C. Gene	D. Termination Sequence	E. Yeast Selection Marker	Approximate Size
						<del></del>
ip2TGIT -K(U)	2 μm	TEFI/GALI	Ketothiolase	URA3	URA3	8.6 kb
p2TG1 -S(H)	2 μm	TEFI/GAL1	Synthase	None	HIS3	9.0 kb
# p2TG1 -R(H)	2 μm	TEF1/GAL1	Reductase	None	HIS3	8.0 kb
pITIT K(U) F pIT2T K(U)	None-integrative	TEF1	Ketothiolase	URA3	URA3	6.2 kb
〒 □ pIT2T K(U)	None-integrative	TEF2	Ketothiolase	URA3	URA3	6.2 kb
pIT1T S(T)	None-integrative	TEF1	Synthase	URA3	TRP1	6.6 kb
pIT2T S(T)	None-integrative	TEF2	Synthase	URA3	TRPI	6.6 kb
pIT1T R(Le)	None-integrative	TEFI	Reductase	URA3	LEU2	6.8 kb

FIG. 16

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## Constitutive Promoter Plasmid System



Synthase	Gal1	Tefl	β-ketothiolase
		1011	I'm and a morting

FIG. 17